

Diamond Tools, by H. C. B. Kleinschmidt, 25 pp.

GERMAN, per, Metall, Vol XIV, 1960, pp 25-36.

~~SECRET~~
AEC Tr-4101

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Results From the Reaction Between Solid and Liquid

Phases of Metals, by H. Winterhager.

GERMAN, per, Metall, Vol 14, 1960, pp 396-400.

*NTIS/NBS TT 71-55123

Available NBS Only

June 71

Metals With Finely Dispersed Nonmetallic
Additives, by R. Palme.
GERMAN, per, Metall, Vol 14, 1960, pp 421-424.
NTC-71-12518-11F

VA 5A 111 10,395

Nov 71

Boosz, H. J.
GALVANIC COATINGS ON MOLYBDENUM AND
TUNGSTEN. [1961] 7p. (5 figs. 7 refs. omitted)
Order from SLA \$1.10

Trans. of Metall (West Germany) 1960, v. 14, June,
p. 546-545.

DESCRIPTIONS: *Molybdenum, *Tungsten, *Metal
coatings, Oxidation, Temperature, Plating, *Electro-
deposition

(Materials--Finishes, TT, v. 6, no. 3)

f1-16163

H. Boosz, H. J.

17504

Office of Technical Services

The Spreading of Mercury on Noble Metals,
by T. Heumann.
EUROPEAN, per, Metall, Vol 14, No 7, 1960,
pp 691-694.
NTC-71-15069-11F

Feb 72

Moller, P. and Speidel, H.
NEW DESIGN FOR PLATINUM-TANTALUM ELECTRODES. [1962] [10]p. 1 ref.
Order from SLA \$1.10

62-16492

Trans. of Metall (West Germany) 1960, v. 14, no. 7,
p. 695-696.

DESCRIPTORS: *Platinum electrodes, Electrodes,
*Tantalum, Design, Electrolytic cells, Hydrogen
compounds, Peroxides, Production.

62-16492

I. Moller, P.
H. Speidel, H.

(Metallurgy, TT, v. 8, no. 9)

Office of Technical Services

Zirconium and Zirconium Alloys for Water Cooled Reactors
by L. Bangert, K. Hennemann, 17 pp.

GERMANY, per, Metallik, Vol XIV, 1960, pp 704-710.

Sci-Nuclear Sci

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U. K. Atomic Energy
Authority Risely,
TRG Inf Ser 100 (C)

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Classification of the Pseudo-Ternary Systems
of Sintered Carbides, by F. Benesovsky,
E. Rudy.

GERMAN, ver. ~~fluxus~~, Vol XIV, No 9, 1960, pp 875-
878.

HB 5845

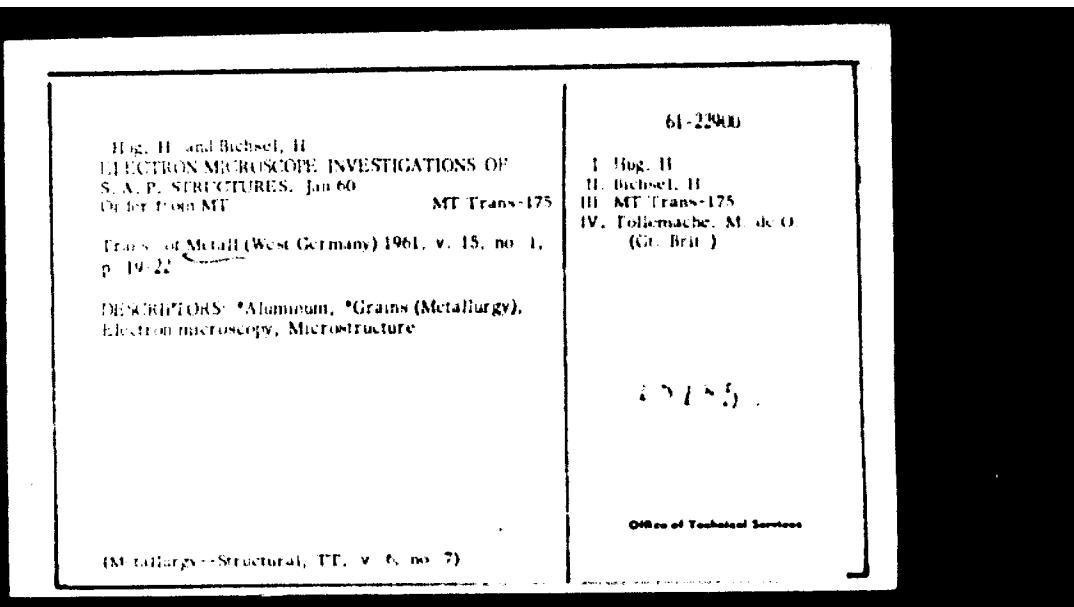
Sci-Materials & Metallurgy
July 63

On ~~the~~ Diffusion of Metals in Aluminium, by W. Roth,
GERMANY, per, Metall. No 10, 1960, pp 979-983.

GB/1

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Dec 62

Findelsen, G. PROPERTIES AND PRODUCTION OF SOME SINTERED STEELS ALLOYED WITH COPPER AND NICKEL. [1961] 7p. (7 figs. 2 tables 24 refs. omitted). Order from SLA \$1.10	61-16096 I. Findelsen, G. 61-16096 Trans. of Metall (West Germany) 1960 [v. 14, no. 10] p. 995-998. DESCRIPTORS: Iron alloys, *Nickel alloys, *Copper alloys, *Steel, Sintering, Powder alloys, Mechanical properties, Production. From iron-nickel- and iron-copper-nickel powder mixtures tensile test bars were pressed, sintered and the change in dimensions measured by the sintering, tensile strength, elongation, thickness and Brinell hardness. The results of measurement were supplemented with metallographic study. Whereas the iron-nickel alloys attained high strength and very high elongation by repeated (double) pressing and sintering, the ternary (Metallurgy, TT, v. 6, no. 4) (over)	177631 Other of Technical Services
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Weiner, R.
ON THE ELECTROLYtic DEPOSITION OF METALS
UNDER THE ACTION OF ULTRASONIC VIBRATION.
[1962] 26p. 5 refs.
Order from SLA \$2.60

63-10894

Trans. of [Metall] (West Germany) 1961, v. 15,
p. 97-101.

DESCRIPTORS: Electroplating, Electrolysis, *Metals,
Vibration, *Ultrasonics, *Electrodeposition,
Ultrasonic equipment.

(Metallurgy, PT, v. 9, no. 12)

63-10894

L. Weiner, R.

Office of Technical Services

The Effectiveness of Boron Containing Grain-
Refining Agents on the Grain Size of Solidi-
fied Pure Aluminium Melts, by K. H. Wiedemann.
GERMAN, per, Metall, Vol 15, No 3, 1961,
pp 221-224.
BISI 8214

Sci-Mat
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Special Techniques of Non-Destructive Testing, Part I,
by H. J. Rodewald, G. Stöber.
GERMAN, per, Metall., Vol XV, No 5, 1961, pp 410-414.
HB 5725

Sci -Mat/Met
May 64

258,873

Schreiner, H.

STRUCTURAL EVALUATION OF MELT AND SINTER MATERIALS (Zur Gefügebeurteilung von Schmelz- und Sinterwerkstoffen). [1963] 11p. (foreign text included)
11 refs.

Order from SLA \$1.60

63-16309

Trans. of Metall (West Germany) 1961, v. 15, no. 5,
p. 422-425.

DESCRIPTORS: *Powder metallurgy, Metallography,
Powder alloys, Powder metals, *Crystal structure,
Porous metals.

Beginning with the metallic sinter materials now in
technical use, a survey is made of the theoretically
possible and actually occurring structures of single
and multi-components compact and porous materials.
Various methods are suitable for the determination of
(Metallurgy, TT, v. 10, no. 9) (over)

63-16309

I. Schreiner, H.

Office of Technical Services

Metallic Bonding Between Uranium and Aluminum for
EMI Nucleair, Reactor Fuel Elements, by G. Schneider,
9 pp.

GERMAN, per, Metall., Vol XV, 1961, pp 675-679.
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AEC-Tr-5905

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Sci - Nuc Sci

~~CONFIDENTIAL~~

THE XIX IRON RICH SIDE OF THE IRON-ZINC SYSTEM, BY
H. H. STADELMAYER.

GERMAN, PER, METALL, VOL XV, 1961, PP 761-763.

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also S(21) N81:ck no. 85

SCI - CHEM

BSC 412

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Surfaces of Rigid PVC Sheets in the Metal-
Processing Industry, by C. Kubitzky.
GERMAN, per, Metall, Vol 15, 1961, pp 995-998.
NTC-71-12647-11F

Nov 71

The Influence of Temperature and Alloying Additions
on the Surface Tension of Silver, Copper and Copper
Alloys, by F. Pavlek, W. Thielisch, 11 pp.

CZECH, per, Metall, Vol XV, No 11, 1961,
pp 1076-1078. 9098274

ABC Tr-4980

Sci - Min/Metals
Apr 62

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Joining Copper and Copper Alloys With Steel-
welding of Copper Plated Steels, by R. Koecher.
GERMAN, per, Metall, Vol 15, 1961, pp 1107-1111.
NTC-71-12679-13H

Nov 71

<p>Eissner, G. ANODIC HARD OR THICK COATS ON ALUMINUM. [1962] 17p. (5 figs. omitted) 21 refs. Order from STA \$1.60 62-14838</p> <p>Trans. of Metall (West Germany) 1961 [v. 15, no. 12] p. 1194-1198.</p> <p>DESCRIPTORS: *Aluminum, *Electroplating, Metal coatings, Production.</p>	<p>62-14838</p> <p>I. Eissner, G.</p>	
	(Metallurgy--Light Metals, TT, v. 9, no. 3)	Office of Technical Services

The Problem of Plasticity in Beryllium, by K. Schmid,
GERMAN, per, Metall, Vol XVI, No 1, 1962, pp 1-4.
NASA TT F-9090

Sci-Mar & Met
Nov 64
U.S. GOVERNMENT ONLY

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Production of Pellets and Their Smelting, by
A. M. Chernyshev.

GERMAN, per, Metallurg, Vol I, 1962, pp 13-18.

CRL/T. 1028

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Engineering and Environmental Conditions, Part
III. Corrosion, Corrosion Protection, and Test-
ing in the Development of Weather-Resistant
Products, by H. Ladeburg, 17 PP.
FOR OFFICIAL USE ONLY
GERMAN, per, Metall, Vol XVI, No 1, 1962,
pp 29-34. 200007866
RSIC-561

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Aging Phenomena in Quenched Al-Alloys,
by G. Borelius,
GERMAN, per, Metall, Vol 16, No 3,
pp 176-180, 1962 9229733
AEC ANL-Tr-180

Sci-M&M
Nov 65

291,624

Woody Fractures in Extruded AlCuMg Bars, by
W. Gruhl, 19 pp. FOR OFFICIAL USE ONLY
GERMAN, per, Metall, Vol XVI, No 3, 1962,
pp 187-192. 200008066
RSIC-554

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The Effect of a Small Beryllium Content on the
Recrystallisation of High Purity Aluminium (Raffinal),
by H. Hug, H. Bichsel.

GERMAN, per, Metall, Vol XVI, No 3, 1962, pp 193-198.

*MT 259

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14 Sep 62

On the Appearance of Plate-like
Segregation Zones in Metal Alloys,
by U. Heubner.
GERMAN, per, Metall, Vol 16, May 1962,
pp 403-407.
BISI 3698

Sci/MEM
Aug 65

288,697

<p>Junge, G. AMALGAMS IN POWDER METALLURGY. [1963] 8p. Order from ATS \$13.50 ATS-00Q69G</p> <p>Trans. of Metall (West Germany) 1962, v. 16, no. 7, p. 639-642.</p> <p>DESCRIPTORS: *Mercury alloys, *powder metallurgy.</p> <p>(Metallurgy, TT, v. 10, no. 3)</p>	<p>63-17390</p> <p>I. Junge, G. II. ATS-00Q69G III. Associated Technical Services, Inc., East Orange, N. J.</p> <p>Office of Technical Services</p>
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Schneider, K., and Löbell, R.
INFLUENCE OF THE PISTON ON CONSTRUCTION
AND OPERATION OF INTERNAL COMBUSTION
ENGINES. [1962] 11p.
Order from ATS \$12.50

ATS-70P60G

Fortschr. der Metall (West Germany) 1962, v. 16, no. 3,
p. 198-204.

DESCRIPTORS: *Internal combustion engines, Con-
struction, Operation, *Pistons.

(Machinery + Engines, TE, v. 8, no. 4)

62-17683

I. Schneider, K.
II. Löbell, R.
III. ATS-70P60G
IV. Associated Technical
Services, Inc., East
Orange, N. J.

Office of Technical Services

<p>Kohler, W. MEASURES FOR CONTROL OF THERMAL EXPANSION IN LIGHT METALS. [1962] 10p. Order from ATS \$14.25 ATS-71P60G Trans. of Metall (West Germany) 1962, v. 16, no. 3, p. 204-209.</p> <p>DESCRIPTORS: *Metals, Thermal expansion, Control.</p> <p>(Metallurgy-Light Metals, PT, v. 8, no. 5)</p>	<p>62-17684</p> <p>I. Kohler, W. II. ATS-71P60G III. Associated Technical Services, Inc., East Orange, N. J.</p>	[Large blacked-out area]
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Herrmann, E.

ALUMINUM AND ALUMINUM ALLOYS. Pt. I of Development in the Field of Continuous Casting of Non-Ferrous Metals. [1963] 22p (figs omitted)
Order from SLA \$2.60

63-20402

Trans. of [das] Metall (West Germany) 1962, v. 16,
no. 4, p. 293-300.

DESCRIPTIONS: *Aluminum, *Aluminum alloys,
*Casting

Topics include: heavy castings; multiple casting; continuous casting with inlays in Vereinigte Leichtmetall-Werke; Hunter-Douglas horizontal continuous casting machine; Hazleitt machine; rotary casting machines; and Properzi-machines.

(Metallurgy, TT, v. 10, no. 12)

63-20402

- I. Title: Continuous casting
- II. Herrmann, E.
- III. Title: Development...

Office of Technical Services

Polar Coordinates Analysis of Chip Formation, by
W. Scholz.
GERMAN, per, Metall, Vol XVI, No 4, 1962, pp 315-322.
CSIRO/No 6524

Sci - M/M
Apr 64

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Occurrence of Plate-Shaped Segregation Zones in
Metal Alloys, by U. Heubner.
GERMAN, per, Metall, Vol XVI, No 5, 1962,
pp 403-407.
PBISI 3696

Sci - M/M
Apr 64

<p>Herrmann, E. COPPER AND COPPER ALLOYS. Pt. 2 of Developments in the Field of Continuous Casting of Non-Ferrous Metals. [1963] 18p (figs omitted) Order from SLA \$1.60 63-20403</p> <p>Trans. of [das] Metall (West Germany) 1962, v. 16, no. 5, p. 413-419.</p> <p>DESCRIPTORS: *Copper, *Copper alloys, *Castings Topics include: continuous casting installation "L/I.," Wertli's several bar machines; Hazellett-machine; Properzi machine; German continuous casting machines; the Lobeck continuous casting machine; the completely continuous LOMA casting machine; installation of the Enfield rolling mills; and installation of the Janney cylinder company (Metallurgy, TT, v. 10, no. 12)</p>	<p>63-20403</p> <p>I. Title: Continuous casting I. Herrmann, E. II. Title: Developments...</p> <p>Office of Technical Services</p>
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Latest Data on the Deformation Behavior of the
Metals Molybdenum, Tantalum, Molybdenum and
Tungsten at Low and Moderate Temperatures, Part I,
by F. Ostermann, 27 pp.

GERMAN, per, Metall., Vol XVI, 1962, pp 656-661.

100-11371

AMC-TR-5770 (Pt 1.)

5

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Diffusion in Mo-Pt Alloys, by K. Kirner,
7 pp.
GERMAN, per, Metall, 16, 1962, pp. 672-678.
~~*CPSTI TT 70-58091~~
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Sci/chem
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Mechanical and Metal-Casting Properties of
Refined Zinc Casting Alloys With 2.4 and 8%
Aluminum and Small Amounts of Titanium
Chromium, Nickel and Beryllium, by W. Thiele.
EUROPEAN, per, Metall, Vol 16, No8, 1962,
pp 744-750.
NTC-71-11697-11F

Feb 72

Study of Diffusion in Hume-Rothery Phases of the
Cu-Zn System, by E. Starko.

GERMAN, per, Metall, Vol 16, 1962, pp 775.

*NTIS/NBS TT 71-55145

Available NBS Only

June 71

Ordering in the Au-Ni System, by A. Munster.
GERMAN, per, Metall, Vol 16, 1962, p 891.

*NTIS/NBS TT 71-55146

Available NBS Only

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Production of Graphite-Coated Particles for Nuclear
Fuel by the Fluidized Bed Process, by F. Benesovsky,
E. Rudy.
GERMAN, per, Metallurgie, No 10, 1962, pp 957-961.
AEC-T-3932

Sci-Phys
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Latest Data on the Deformation Behavior of the
Metals Niobium, Tantalum, Molybdenum and Tungsten
at Low and Moderate Temperatures, Part II, by
J. Ostermann, 26 pp.

CHMSE, per, Metall., Vol XVI, 1962, pp 979-984.

ABC-2r-5770 (Pt 2)

Sci - Mat & Mat

Aug 63

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<p>Pelzel, E. MECHANICAL AND CASTING PROPERTIES OF HIGH QUALITY ZINC INJECTION MOULDING ALLOYS CONTAINING BERYLLIUM, 27 Feb 63. Order from TTIS \$30.00 TTIS NS 64 Trans. of Metall (West Germany) 1962, v. 16 [no. 11] p. 1120-1122.</p> <p>DESCRIPTORS: Mechanical properties, *Castings, *Zinc alloys, *Beryllium, Injection, Quality control.</p> <p>(Metallurgy, TT, v. 9, no. 10)</p>	<p>63-17003</p> <p>I. Pelzel, E. II. TTIS NS-64 III. Translation and Technical Information Services (Gr. Brit.)</p> <p>Office of Technical Services</p>
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Mhenium, by J. Sagoschen, 15 pp.

GERMAN, per, Metall., Vol XVI, 1962, pp 1193-1195.

AEC-tr-6021

Sci-Met & Met
Nov 63

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The Hard Chromium Plating of Electropolished
Metal Surfaces, by R. Weiner, F. Hesme, et al.
GERMAN, p 11, Metall, Vol XVII, No 1, 1963,
pp 21-23.
HB 6212

Sci - Mat/Met
May 64

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Peller-Kniepneier, M. and Pawlek, F.
THE APPLICATION OF ELECTRON DIFFRACTION
TO THE ANALYSIS OF ANODE SLIMES. [1963] 5p
6refs
Order from SLA \$1.10

63-18516

Trans. of [das] Metall (West Germany) 1963, v. 17,
no. 1, p. 36-38.

DESCRIPTORS: Electron diffraction analysis,
'Anodes, Chemical compounds, Ores (Metal sources),
Recovery.

Anode slimes were studied to find their composition
by the method of electron diffraction. It was found that
the results obtained by this method are comparable with
those obtained by X-rays for which a fractionation by
mechanical or chemical means is necessary. The
separate elements are combined in different ways,
e.g. silver can be present in elementary form but also
(Metallurgy, TT, v. 10, no. 11) (over)

63-18516

I. Title: Slimes
I. Peller-Kniepneier, M
II. Pawlek, F.

Office of Technical Services

Influence of Temperature and Velocity on the
Deformation Properties of Pure Titanium and
Titanium Alloy TiAl 64, by K. Willinger,
E. E. J. Wittwer, 17 pp.

GERMAN, per, Metall, No 2, 1963, pp 97-107. 7691151

ACSI I-3528
ID 2246315

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Sci - N/M
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Alloys of Ruthenium with Boron, Beryllium and
Alurinium, by W. Obrowski.
GERMAN, per Metall., Vol. 17, 1965, pp 108-112

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559-788

S-582/64

On the Theory of Phase Segregation and Its Application
to the Phenomena Precipitation Hardness and Strength
at High Temperatures, by H. Klemm, 450P

GERMAN, per, Metall, Vol XVII, No 2, 1963,
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~~✓~~JPRS/DC-10503/SPECIAL

Sci 1 M/M
21 May 64

Structure of Anodic Coatings on Aluminum
Surfaces, by H. Ginsberg, K. Weiers.
GERMAN, Ger, Metall, Vol 17, No 5, 1963,
PP 301-209.
HRC/Ref: C-5130

Sci -
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Age-Hardening Behaviour of Aluminium-magnesium-silicon Alloys, by H. Borchers, M. Kainz.
GERMANY, per, Metall, Vol 17, No 5, 1963, pp 400-408.
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Metallography by Means of Electron Transmission Microscopy, by E. Hornbogen and H. Warlimont, GERMAN, per. Metall., No 5, pp 437-445, No 9, pp 897-905, 1963.
BISI 7548

The Ternary Phase $Fe_{23}C_3B_3$ in the Iron-Carbon Diagram, by H. H. Stadelmaier and R. A. Gregg. *Trans. Am. Soc. Metall.*, Vol 17, May 1963, pp 412-414.
NDI 6166

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Dimensional and Structural Changes due to
Diffusion Along a Temperature Gradient in
Several Copper-Tin Alloys, by H. G. Feller,
H. Wever, 25 pp.
GERMAN, per, Metall, Vol 17, 1963, pp 414-419.
AEC-UCRL-Tr-10258 P911276568-V

Sci/Material
Nov 68

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Adhesion and Layer Build-Up in Electrode Arc and
Flame Spraying, Part I, by A. Netting, H. D.
Steffens, 28 pp.
CHIRAL, par, Metall, Vol 17, Jun 1963, pp 583-
593.
AMC ORNL Tr-1392

NTC 72-14247-13 H

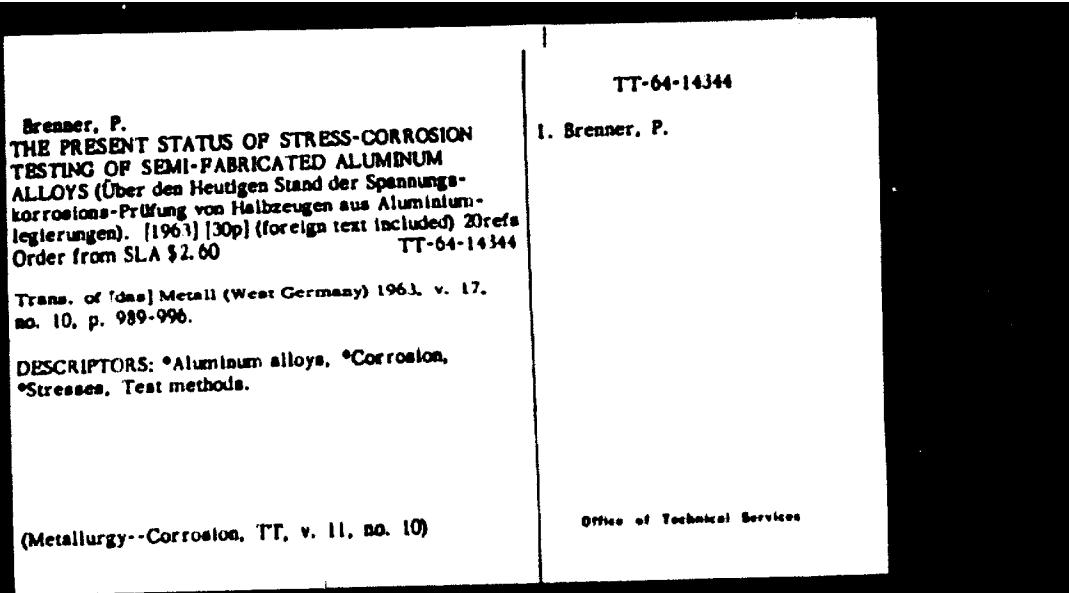
331,196

Sci - Electronics
Jul 67

Adhesion and Layer Build-up in Plasma-Arc and
Flame Spraying, Part 2, by A. Hatting,
H. B. Steffens.
CIRCUIT, pag. Metall, Vol 17, 1963, pp 905-922.
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NLC UKM-tr-1393

Sci/Materials
Jan 67

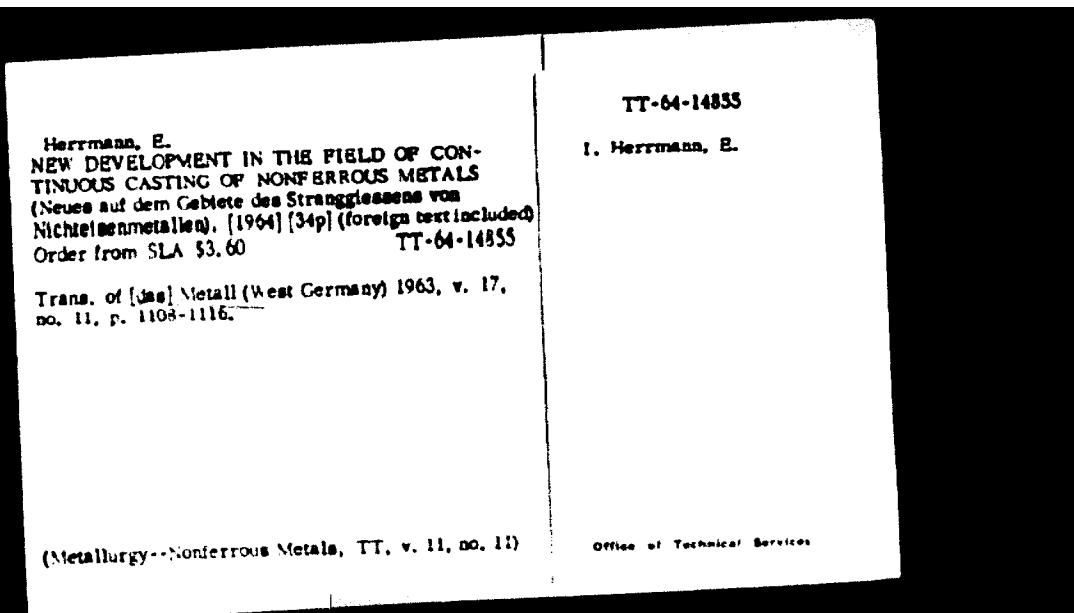
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Baked-Enamel-Finished Aluminum Strip for Decorative Purposes-Manufacturing Methods and Properties, by E. Hoefling and D. Altenpohl, 6 pp.
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Sci-MQH
Aug 66]

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Determination of Curie Temperature of
Ferromagnetic Specimens in a Microfurnace,
by F. Brandstetter.
GERMAN, per, Metall, Vol XVII, No 12, 1963,
pp 1209-1212.
• RISI 3712

Sci - Engr
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Abrasions and Layer Build-Up During Plasma Arc and
Flame Spraying. Part III. by A. Metting, K. D.
Stafford, 58 pp.
CEMALL, per, Metal, Vol 17, 1963, pp 1213-1230.
ABC CML Tr 1594

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Sci - Electronics
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The Production of Heavy Metals by ~~Fusion~~ Electrolysis
VII (1). Electro-Crystallisation, in Particular
Compact Deposits, by J. Lindau and F. Sauerwald,
GERMAN, per. Metalloberflache, Vol 17, No 12, 1963,
pp 357-362.
BISI 9063

June 71

Grain Growth in Metals, by N. Franssen, 41pp
GERMAN, per, Metall, Vol 18, 1964, No 1, pp
8-16
SIA TT-64-18522

Sci - Meta
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Determination of Residual Stresses on Pipes
From Aluminum Alloys Part I: Fundamentals, by
W. Sautter and W. Gruhl,
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pp 208-212. 700037855
RSIC-556

Sci-Eng R
Sept 66

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Firing of Aluminum and Aluminum Alloys in Protective Gas, by D. Altenpohl and H. Zeiger,
FOR OFFICIAL USE ONLY
GERMAN, per, Metall, Vol XVIII, No 3, 1964,
pp 220-223. 200021666
RSIC-560

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Sept 66

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Theory of Anodically Formed Oxide Films on
Aluminum, by S. Tajima.
GERMAN, per, Metall, Vol XVIII, No 6, 1964,
pp 581-589.
ATS 89R77G

Apr 67 322,998

The Determination of Small Gas Contents in
Metals, by F. Spenger, K. H. Koch.
GERMAN, per, Metall, Vol 18, Jul 1964,
pp 701-704.
SISI 4520

EE-Germany
Sci/1641
Feb 66

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Deformation of Zirconium Sheets During Oxidation,
by G. Saur, H. J. Laue, H. Borchers, 21pp
GERMAN, per, Metall, Vol 18, 1964, No 7,
pp 704-708
SIA TT-64-30037

Sci - Meta
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Contribution to the Solderability and
Wettability of Metal Surfaces With Soft
Solders, by B. Keyssclitz.
GERMAN, per, Metall, Vol 16, No 8, 1964,
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CRL/T. 2156

Sci -
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Theory of Sintering, Parts I and II.
by H. Fischmeister, 22 pp.
GERMAN, per, Metall, vol 18, 1964,
pp. 932-140.
*NBS TT 70-57861

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The Crystal Structure and the Structural
Relationship Between the α and γ phases in the
the Copper-Tin System, by H. Knodler.
GERMAN, per, Metall., Vol 18, No 11, pp 1172-
1177, 1964 9290164
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Sci-Phys
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Determination of Characteristics Stresses on Tubes
of Aluminum Alloys. Part II. Test and Test
Readings, by W. Sautter, H. Gruhl. 20 pp.
GERMAN, por, Metall, Vol 18, No 9, 1964,
pp 918-922. PI00012566
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Sci/Materials

Sep 66

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Experiments for Determining Internal Stresses in
Composite Metals, Specifically in Cemented Hard
Carbides, by A. Peikar.
GERMAN, per, Messil, Vol XVIII, No 12, 1964
pp 1293-1299.
NASA TT F-9300

Sci-M/M
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Study of Divacancies in Self-Diffusion of Ag.
by P. Reimers.
GERMAN, per, Metall., No 22, 1968, pp 1-6.
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Sci-Mat
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Notes on a Few of the Questions Inherent to the
Mechanical Working of Light Alloys and Pure
Aluminum, by U. Magnani, C. Panseri, 24 p.

ITALIAN, per, la Metallurgia Italiana, 1931,
Vol XXXI, No 265-291.

SLA 59-20528

Sci
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Vol 2, No 12

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Composition of Metal Deposited by Arc-Welding
Electrodes, by L. Losana, M. Jarach, 15 p.

ITALIAN, per, La Metallurgia Italiana, 1935,
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SLA 59-20527

Sci
Mar 60
Vol 2, No 12

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